

**COMPACT OPTICAL TRANSCEIVERS INCLUDING THERMAL
DISTRIBUTING AND ELECTROMAGNETIC SHIELDING SYSTEMS
AND METHODS THEREOF**

ABSTRACT OF THE DISCLOSURE

5 An optical transceiver includes structures that define an
electrical connector port for allowing connection of an
electrical connector to an optical subassembly of the
transceiver, and structures that define a vent surrounding at
least portions of the connector port, whereby the vent allows
10 bidirectional passage of air therethrough. Included in the
transceiver are structures that define electromagnetic
interference shielding and selectively transfer heat of heat
generating electronic components by conduction to a transceiver
housing. Methods of cooling the transceiver by ventilation and
15 internal heat conduction are present.